

02/06/12

Technical Report for

K.P. Kauffmann Company, Inc.

Wattenberg Tank

Accutest Job Number: D31362

Sampling Date: 01/26/12

Report to:

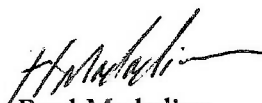
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ATTN: Mike Hattel

Total number of pages in report: 26



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Brad Madadian
Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

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Test results relate only to samples analyzed.

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Sample Summary

K.P. Kauffmann Company, Inc.

Job No: D31362

Wattenberg Tank

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
D31362-1	01/26/12	11:30 MH	01/26/12	AQ Water	TANK-1
D31362-1F	01/26/12	11:30 MH	01/26/12	AQ Water Filtered	TANK-1

CASE NARRATIVE / CONFORMANCE SUMMARY**Client:** K.P. Kauffmann Company, Inc.**Job No** D31362**Site:** Wattenberg Tank**Report Date** 2/6/2012 10:11:33 AM

On 01/26/2012, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.3 °C. The sample was intact and properly preserved, unless noted below. An AMS Job Number of D31362 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6010C**Matrix** AQ**Batch ID:** MP6759

- The sample was digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31447-1MS, D31447-1MSD were used as the QC samples for the metals analysis.

Wet Chemistry By Method ASTM D287**Matrix** ALL**Batch ID:** GN13450

- The data for ASTM D287 meets quality control requirements.

Wet Chemistry By Method EPA 1664A**Matrix** AQ**Batch ID:** GP6429

- The sample was prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 300/SW846 9056**Matrix** AQ**Batch ID:** GP6393

- The sample was prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31337-2MS, D31337-2MSD were used as the QC samples for the Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride analysis.
- D31362-1 for Nitrogen, Nitrite and Nitrate: Elevated detection limit due to matrix interference.

Wet Chemistry By Method SM20 2540C**Matrix** AQ**Batch ID:** GN13454

- The sample was analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31337-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

Wet Chemistry By Method SM20 5310B

Matrix AQ

Batch ID: GP6403

- The sample was prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31208-1DUP, D31337-1MS, D31337-1MSD were used as the QC samples for the Total Organic Carbon analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.



Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

Client Sample ID: TANK-1
Lab Sample ID: D31362-1
Matrix: AQ - Water
Project: Wattenberg Tank

Date Sampled: 01/26/12
Date Received: 01/26/12
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	11100	250	mg/l	500	01/26/12 15:59	JML	EPA 300/SW846 9056
HEM Oil and Grease	46.0	5.3	mg/l	1	02/02/12	SWT	EPA 1664A
Nitrogen, Nitrate ^a	< 1.1	1.1	mg/l	25	01/26/12 14:50	JML	EPA 300/SW846 9056
Nitrogen, Nitrite ^a	< 31	31	mg/l	500	01/26/12 15:59	JML	EPA 300/SW846 9056
Solids, Total Dissolved	20400	10	mg/l	1	01/30/12	JK	SM20 2540C
Specific Gravity by Hydromete	1.0143			1	01/27/12	CJ	ASTM D287
Sulfate	96.5	13	mg/l	25	01/26/12 14:50	JML	EPA 300/SW846 9056
Total Organic Carbon	847	43	mg/l	43	01/30/12 16:46	NS	SM20 5310B
pH	7.41		su	1	01/26/12 15:30	CT	SM20 4500H

(a) Elevated detection limit due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID: TANK-1
Lab Sample ID: D31362-1F
Matrix: AQ - Water Filtered
Project: Wattenberg Tank

Date Sampled: 01/26/12
Date Received: 01/26/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	199000	20000	ug/l	5	02/01/12	02/02/12 JB	SW846 6010C ¹	SW846 3010A ²
Magnesium	35100	10000	ug/l	5	02/01/12	02/02/12 JB	SW846 6010C ¹	SW846 3010A ²
Potassium	93800	50000	ug/l	5	02/01/12	02/02/12 JB	SW846 6010C ¹	SW846 3010A ²
Sodium	6830000	20000	ug/l	5	02/01/12	02/02/12 JB	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA2158

(2) Prep QC Batch: MP6759

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4036 Youngfield St., Wheat Ridge, CO 80033
303-425-6021 FAX: 303-425-6854

FED-EX Tracking #		Bottle Order Control #	
Accutest Quote #		Accutest Job # D31362	
Client / Reporting Information		Project Information	
Company Name K.P. Kauffman Company, Inc.		Project Name WATTENBERG TANK	
Address 1675 Broadway, Suite 2800		Street	
City Denver		City Fort Lupton	
State CO		State CO	
Zip 80202-4628		Zip	
Project Contact Kent Gilbert		Project #	
Phone # 303-825-4822		Fax #	
Sampler's Name MICHAEL HATTEL (303-665-1400)		Client Purchase Order # 7591	
Accutest Sample #		SUMMA #	
Field ID / Point of Collection TANK - I		MEOH Vial #	
Date 1-26-12		Time 1130	
Sampled by MDH		Matrix LIQ	
# of bottles 7		Number of preserved bottles	
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<input checked="" type="checkbox"/> SOL		<input checked="" type="checkbox"/> SOL	
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<input checked="" type="checkbox"/> LIQ		<input checked="" type="checkbox"/> LIQ	



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D31362

Client: K.P.KAUFFMAN COMPANY INC.

Immediate Client Services Action Required: No

Date / Time Received: 1/26/2012 12:15:00 PM

No. Coolers: 1

Client Service Action Required at Login: No

Project: WATTENBERG TANK

Airbill #'s: HD

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Infrared gun | |
| 3. Cooler media: | Ice (bag) | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume rec'd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
V: (303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www.accutest.com

D31362: Chain of Custody
Page 2 of 2

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6759
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/01/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	100	5.9	5.9		
Antimony	30	3.1	3.1		
Arsenic	25	5.9	5.9		
Barium	10	1.1	1.1		
Beryllium	10	.44	.5		
Boron	50	4.8	4.8		
Cadmium	10	.27	.27		
Calcium	400	9.6	15	10.6	<400
Chromium	10	.18	.79		
Cobalt	5.0	.35	.35		
Copper	10	.85	2.8		
Iron	70	3.4	13		
Lead	50	1.6	2.1		
Lithium	2.0	.28	1.2		
Magnesium	200	5.8	10	2.4	<200
Manganese	5.0	.053	.31		
Molybdenum	10	.45	.87		
Nickel	30	.43	1		
Phosphorus	100	11	20		
Potassium	1000	55	55	~61	<1000
Selenium	50	3.8	3.8		
Silicon	50	3.8	3.8		
Silver	30	.18	.31		
Sodium	400	110	110	5.3	<400
Strontium	5.0		.25		
Thallium	10	2.9	2.9		
Tin	50	5.5	9.9		
Titanium	10	.11	.31		
Uranium	50	1.5	3.5		
Vanadium	10	.16	.22		
Zinc	30	.28	1.8		

Associated samples MP6759: D31362-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6759
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

5.1.1

5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6759
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/01/12

Metal	D31447-1 Original MS		Spikelot MPICPALL % Rec		QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium	anr				
Beryllium					
Boron					
Cadmium	anr				
Calcium	54800	80200	25000	101.6	75-125
Chromium	anr				
Cobalt					
Copper					
Iron	anr				
Lead	anr				
Lithium					
Magnesium	20600	46100	25000	102.0	75-125
Manganese	anr				
Molybdenum					
Nickel					
Phosphorus					
Potassium	1230	28300	25000	108.3	75-125
Selenium	anr				
Silicon					
Silver	anr				
Sodium	26200	52300	25000	104.4	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP6759: D31362-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6759
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits
(anz) Analyte not requested

5.1.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6759
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/01/12

Metal	D31447-1 Original	MSD	Spikelot MPICPALL	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium	54800	79900	25000	100.4	0.4	20
Chromium	anr					
Cobalt						
Copper						
Iron	anr					
Lead	anr					
Lithium						
Magnesium	20600	46000	25000	101.6	0.2	20
Manganese	anr					
Molybdenum						.
Nickel						
Phosphorus						
Potassium	1230	28200	25000	107.9	0.4	20
Selenium	anr					
Silicon						
Silver	anr					
Sodium	26200	52000	25000	103.2	0.6	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP6759: D31362-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6759
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

5.1.2

5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6759
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/01/12

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	anr			
Calcium	25200	25000	100.8	80-120
Chromium	anr			
Cobalt				
Copper				
Iron	anr			
Lead	anr			
Lithium				
Magnesium	25200	25000	100.8	80-120
Manganese	anr			
Molybdenum				
Nickel				
Phosphorus				
Potassium	26300	25000	105.2	80-120
Selenium	anr			
Silicon				
Silver	anr			
Sodium	25900	25000	103.6	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP6759: D31362-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

5.1.3

5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6759
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

5.1.3

5

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

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METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bromide	GP6393/GN13433	0.20	0.0	mg/l	20	20.5	102.5	90-110%
Chloride	GP6393/GN13433	0.50	0.0	mg/l	20	19.9	99.5	90-110%
HEM Oil and Grease	GP6429/GN13523	5.0	0.0	mg/l	40	32.8	82.0	78-114%
Nitrogen, Nitrate	GP6393/GN13433	0.045	0.0	mg/l	4.52	4.08	90.3	90-110%
Nitrogen, Nitrite	GP6393/GN13433	0.061	0.0	mg/l	6.09	6.28	103.1	90-110%
Solids, Total Dissolved	GN13454	10	0.0	mg/l	400	396	99.0	90-110%
Sulfate	GP6393/GN13433	0.50	0.0	mg/l	30	30.0	100.0	90-110%
Total Organic Carbon	GP6403/GN13463	1.0	0.0	mg/l	7.2	7.37	102.4	90-110%
pH	GN13430			su	8.00	8.03	100.4	99.3-100

Associated Samples:
Batch GN13430: D31362-1
Batch GN13454: D31362-1
Batch GP6393: D31362-1
Batch GP6403: D31362-1
Batch GP6429: D31362-1
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
HEM Oil and Grease	GP6429/GN13523	mg/l	40	33.8	3.0	20%

Associated Samples:
Batch GP6429: D31362-1
(*) Outside of QC limits

62
9

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN13454	D31337-1	mg/l	1770	1780	0.6	0-25%
Total Organic Carbon	GP6403/GN13463	D31208-1	mg/l	2.2	2.3	4.4	0-20%

Associated Samples:
Batch GN13454: D31362-1
Batch GP6403: D31362-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D31362
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Bromide	GP6393/GN13433	D31337-2	mg/l	0.0	2.5	2.4	96.0	80-120%
Bromide	GP6393/GN13433	D31337-2	mg/l	0.0	2.5	2.4	96.0	80-120%
Chloride	GP6393/GN13433	D31337-2	mg/l	5.5	10	14.9	94.0	80-120%
Nitrogen, Nitrate	GP6393/GN13433	D31337-2	mg/l	3.7	5.65	8.8	90.3	80-120%
Nitrogen, Nitrite	GP6393/GN13433	D31337-2	mg/l	0.0	0.305	0.30	98.5	80-120%
Nitrogen, Nitrite	GP6393/GN13433	D31337-2	mg/l	0.0	0.305	0.30	98.5	80-120%
Sulfate	GP6393/GN13433	D31337-2	mg/l	91.5	100	191	99.5	80-120%
Total Organic Carbon	GP6403/GN13463	D31337-1	mg/l	2.4	10	12.2	98.0	80-120%

Associated Samples:

Batch GP6393: D31362-1

Batch GP6403: D31362-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D31362
Account: KPCCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Bromide	GP6393/GN13433	D31337-2	mg/l	0.0	2.5	2.5	4.1	20%
Bromide	GP6393/GN13433	D31337-2	mg/l	0.0	2.5	2.5	4.1	20%
Chloride	GP6393/GN13433	D31337-2	mg/l	5.5	10	15.4	3.3	20%
Nitrogen, Nitrate	GP6393/GN13433	D31337-2	mg/l	3.7	5.65	8.9	1.1	20%
Nitrogen, Nitrite	GP6393/GN13433	D31337-2	mg/l	0.0	0.305	0.29	3.4	20%
Nitrogen, Nitrite	GP6393/GN13433	D31337-2	mg/l	0.0	0.305	0.29	3.4	20%
Sulfate	GP6393/GN13433	D31337-2	mg/l	91.5	100	193	1.0	20%
Total Organic Carbon	GP6403/GN13463	D31337-1	mg/l	2.4	10	12.3	0.8	20%

Associated Samples:

Batch GP6393: D31362-1

Batch GP6403: D31362-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits



03/07/12

Technical Report for

K.P. Kauffmann Company, Inc.

Wattenberg Tank

Accutest Job Number: D32254

Sampling Date: 02/28/12

Report to:


Apex Consulting Services
PO Box 369
Louisville, CO 80027-0369
mhattel@msn.com; slaramesa@kpk.com

ATTN: Mike Hattel

Total number of pages in report: 26



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Brad Madadian
Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

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Test results relate only to samples analyzed.

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Accutest Laboratories

Sample Summary

K.P. Kauffmann Company, Inc.

Job No: D32254

Wattenberg Tank

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
D32254-1	02/28/12	10:00 MH	02/28/12	AQ Water	TANK-1
D32254-1F	02/28/12	10:00 MH	02/28/12	AQ Water	TANK-1

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: K.P. Kauffmann Company, Inc.

Job No D32254

Site: Wattenberg Tank

Report Date 3/7/2012 3:51:23 PM

On 02/28/2012, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.8 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D32254 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6010C

Matrix AQ	Batch ID: MP6943
------------------	-------------------------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D32130-4FMS, D32130-4FMSD were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Wet Chemistry By Method ASTM D287

Matrix ALL	Batch ID: GN13910
-------------------	--------------------------

- The data for ASTM D287 meets quality control requirements.

Wet Chemistry By Method EPA 1664A

Matrix AQ	Batch ID: GP6635
------------------	-------------------------

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix AQ	Batch ID: GP6617
------------------	-------------------------

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D32251-1MS, D32251-1MSD were used as the QC samples for the Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride analysis.
- D32254-1 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.

Wet Chemistry By Method SM20 2540C

Matrix AQ	Batch ID: GN13888
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D32254-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

Wednesday, March 07, 2012

Page 1 of 2

Wet Chemistry By Method SM20 5310B

Matrix AQ

Batch ID: GP6630

2

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D32162-1DUP, D32162-1MS, D32162-1MSD were used as the QC samples for the Total Organic Carbon analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TANK-1
Lab Sample ID: D32254-1
Matrix: AQ - Water
Project: Wattenberg Tank

Date Sampled: 02/28/12
Date Received: 02/28/12
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	10400	250	mg/l	500	02/28/12 20:50	JML	EPA 300/SW846 9056
HEM Oil and Grease	42.2	4.8	mg/l	1	03/06/12	SWT	EPA 1664A
Nitrogen, Nitrate	3.1	1.1	mg/l	25	02/28/12 16:40	JML	EPA 300/SW846 9056
Nitrogen, Nitrite ^a	< 5.0	5.0	mg/l	500	02/28/12 20:50	JML	EPA 300/SW846 9056
Solids, Total Dissolved	17600	10	mg/l	1	02/29/12	JD	SM20 2540C
Specific Gravity by Hydromete	1.0122			1	02/29/12	CJ	ASTM D287
Sulfate	334	13	mg/l	25	02/28/12 16:40	JML	EPA 300/SW846 9056
Total Organic Carbon	2310	120	mg/l	119	03/02/12 11:03	GH	SM20 5310B
pH	8.19		su	1	02/28/12 14:45	JK	SM20 4500H

(a) Elevated detection limit due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID: TANK-1
Lab Sample ID: D32254-1F
Matrix: AQ - Water
Project: Wattenberg Tank

Date Sampled: 02/28/12
Date Received: 02/28/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	147000	20000	ug/l	50	02/29/12	02/29/12 JM	SW846 6010C ¹	SW846 3010A ³
Magnesium	36500	10000	ug/l	50	02/29/12	02/29/12 JM	SW846 6010C ¹	SW846 3010A ³
Potassium	68200	50000	ug/l	50	02/29/12	02/29/12 JM	SW846 6010C ¹	SW846 3010A ³
Sodium	5630000	20000	ug/l	50	02/29/12	03/01/12 JB	SW846 6010C ²	SW846 3010A ³

(1) Instrument QC Batch: MA2220

(2) Instrument QC Batch: MA2225

(3) Prep QC Batch: MP6943

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D32254

Client: K.P. KAUFFMAN COMPANY INC.

Immediate Client Services Action Required: No

Date / Time Received: 2/28/2012 10:50:00 AM

No. Coolers: 1

Client Service Action Required at Login: No

Project: WATTENBERG TANK

Airbill #'s: HD

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smp! Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Infrared gun | |
| 3. Cooler media: | Ice (bag) | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume rec'd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
V:(303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www.accutest.com

D32254: Chain of Custody
Page 2 of 2

Metals Analysis

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6943
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/29/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	100	5.9	5.9		
Antimony	30	3.1	3.1		
Arsenic	25	5.9	5.9		
Barium	10	1.1	1.1		
Beryllium	10	.44	.5		
Boron	50	4.8	4.8		
Cadmium	10	.27	.27		
Calcium	400	9.6	15	12.0	<400
Chromium	10	.18	.79		
Cobalt	5.0	.35	.35		
Copper	10	.85	2.8		
Iron	70	3.4	13		
Lead	50	1.6	2.1		
Lithium	2.0	.28	1.2		
Magnesium	200	5.8	10	-3.6	<200
Manganese	5.0	.053	.31		
Molybdenum	10	.45	.87		
Nickel	30	.43	1		
Phosphorus	100	11	20		
Potassium	1000	55	55	-60	<1000
Selenium	50	3.8	3.8		
Silicon	50	3.8	3.8		
Silver	30	.18	.31		
Sodium	400	110	110	7.0	<400
Strontium	5.0		.25		
Thallium	10	2.9	2.9		
Tin	50	5.5	9.9		
Titanium	10	.11	.31		
Uranium	50	1.5	3.5		
Vanadium	10	.16	.22		
Zinc	30	.28	1.8		

Associated samples MP6943: D32254-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

5.1.1
5

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6943
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

5.1.1
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6943
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/29/12

Metal	D32130-4F Original MS	Spikelot MPICALL % Rec	QC Limits
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Boron	anr		
Cadmium	anr		
Calcium	51300	76100 25000	99.2 75-125
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Lithium	anr		
Magnesium	227	24300 25000	96.3 75-125
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Phosphorus	anr		
Potassium	33300	60700 25000	109.6 75-125
Selenium	anr		
Silicon			
Silver	anr		
Sodium	515000	533000 25000	44.0 (a) 75-125
Strontium	anr		
Thallium	anr		
Tin			
Titanium	anr		
Uranium			
Vanadium	anr		
Zinc	anr		

Associated samples MP6943: D32254-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

5.1.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6943
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested
- (a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

5.1.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6943
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/29/12

Metal	D32130-4F Original MSD	Spikelot MPICPALL	% Rec	MSD RPD	QC Limit	
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Boron	anr					
Cadmium	anr					
Calcium	51300	74900	25000	94.4	1.6	20
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	anr					
Lithium	anr					
Magnesium	227	24200	25000	95.9	0.4	20
Manganese	anr					
Molybdenum	anr					
Nickel	anr					
Phosphorus	anr					
Potassium	33300	59700	25000	105.6	1.7	20
Selenium	anr					
Silicon						
Silver	anr					
Sodium	515000	535000	25000	52.0 (a)	0.4	20
Strontium	anr					
Thallium	anr					
Tin						
Titanium	anr					
Uranium						
Vanadium	anr					
Zinc	anr					

Associated samples MP6943: D32254-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

5.1.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6943
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

- (N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

5.1.2
5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6943
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/29/12

Metal	BSP Result	Spikelot MPICPAL % Rec	QC Limits
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Boron	anr		
Cadmium	anr		
Calcium	24800	25000	99.2 80-120
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Lithium	anr		
Magnesium	25100	25000	100.4 80-120
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Phosphorus	anr		
Potassium	26300	25000	105.2 80-120
Selenium	anr		
Silicon			
Silver	anr		
Sodium	25700	25000	102.8 80-120
Strontium	anr		
Thallium	anr		
Tin			
Titanium	anr		
Uranium			
Vanadium	anr		
Zinc	anr		

Associated samples MP6943: D32254-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

5.1.3
5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP6943
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

5.1.3

5

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP6617/GN13892	0.50	0.29	mg/l	20	20.0	100.0	90-110%
HEM Oil and Grease	GP6635/GN13935	5.0	0.0	mg/l	40	35.9	89.8	78-114%
Nitrogen, Nitrate	GP6617/GN13892	0.045	0.0	mg/l	4.52	4.46	98.7	90-110%
Nitrogen, Nitrite	GP6617/GN13892	0.010	0.0	mg/l	6.09	6.26	102.8	90-110%
Solids, Total Dissolved	GN13888	10	0.0	mg/l	400	404	101.0	90-110%
Sulfate	GP6617/GN13892	0.50	0.0	mg/l	30	29.6	98.7	90-110%
Total Organic Carbon	GP6630/GN13931	1.0	0.0	mg/l	7.2	7.44	103.3	90-110%
pH	GN13883			su	8.00	7.96	99.5	99.3-100
pH	GN13883			su	8.00	7.96	99.5	99.3-100

Associated Samples:

Batch GN13883: D32254-1

Batch GN13888: D32254-1

Batch GP6617: D32254-1

Batch GP6630: D32254-1

Batch GP6635: D32254-1

(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
HEM Oil and Grease	GP6635/GN13935	mg/l	40	33.1	8.1	20%

Associated Samples:
Batch GP6635: D32254-1
(*) Outside of QC limits

6.2

6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN13888	D32254-1	mg/l	17600	17600	0.0	0-25%
Total Organic Carbon	GP6630/GN13931	D32162-1	mg/l	2.5	2.5	0.0	0-20%

Associated Samples:
Batch GN13888: D32254-1
Batch GP6630: D32254-1
(*) Outside of QC limits



MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP6617/GN13892	D32251-1	mg/l	72.1	50	137	112.2	80-120%
Chloride	GP6617/GN13892	D32251-1	mg/l	80.9	50	137	112.2	80-120%
Nitrogen, Nitrate	GP6617/GN13892	D32251-1	mg/l	0.0	2.83	3.0	106.2	80-120%
Nitrogen, Nitrite	GP6617/GN13892	D32251-1	mg/l	0.019	0.305	0.35	108.7	80-120%
Sulfate	GP6617/GN13892	D32251-1	mg/l	26.8	50	79.1	104.2	80-120%
Sulfate	GP6617/GN13892	D32251-1	mg/l	27.0	50	79.1	104.2	80-120%
Total Organic Carbon	GP6630/GN13931	D32162-1	mg/l	2.5	10	13.3	108.0	80-120%

Associated Samples:

Batch GP6617: D32254-1

Batch GP6630: D32254-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

6.4
6

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D32254
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP6617/GN13892	D32251-1	mg/l	72.1	50	136	0.7	20%
Chloride	GP6617/GN13892	D32251-1	mg/l	80.9	50	136	0.7	20%
Nitrogen, Nitrate	GP6617/GN13892	D32251-1	mg/l	0.0	2.83	3.0	0.0	20%
Nitrogen, Nitrite	GP6617/GN13892	D32251-1	mg/l	0.019	0.305	0.32	9.0	20%
Sulfate	GP6617/GN13892	D32251-1	mg/l	26.8	50	79.1	0.0	20%
Sulfate	GP6617/GN13892	D32251-1	mg/l	27.0	50	79.1	0.0	20%
Total Organic Carbon	GP6630/GN13931	D32162-1	mg/l	2.5	10	13.2	0.8	20%

Associated Samples:

Batch GP6617: D32254-1

Batch GP6630: D32254-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

6.5
9



04/11/12

Technical Report for

K.P. Kauffmann Company, Inc.

Wattenberg Tank

Accutest Job Number: D33211

Sampling Date: 03/29/12

Report to:


Apex Consulting Services
PO Box 369
Louisville, CO 80027-0369
mhattel@msn.com; slaramesa@kpk.com

ATTN: Mike Hattel

Total number of pages in report: 26



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Brad Madadian
Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW), UT (NELAP CO00049), TX (T104704511-12-1)
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

K.P. Kauffmann Company, Inc.

Job No: D33211

Wattenberg Tank

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
D33211-1	03/29/12	10:30 MH	03/29/12	AQ Water	TANK-1
D33211-1F	03/29/12	10:30 MH	03/29/12	AQ Water Filtered	TANK-1



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: K.P. Kauffmann Company, Inc.

Job No D33211

Site: Wattenberg Tank

Report Date 4/11/2012 1:03:49 PM

On 03/29/2012, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 6 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D33211 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6010C

Matrix AQ

Batch ID: MP7213

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D33292-1MS, D33292-1MSD were used as the QC samples for the metals analysis.

Wet Chemistry By Method ASTM D287

Matrix ALL

Batch ID: GN14449

- The data for ASTM D287 meets quality control requirements.

Wet Chemistry By Method EPA 1664A

Matrix AQ

Batch ID: GP6940

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix AQ

Batch ID: GP6853

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D33178-1MS, D33178-1MSD were used as the QC samples for the Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride analysis.
- D33211-1 for Nitrogen, Nitrate/Nitrite: Elevated detection limit due to matrix interference.

Wet Chemistry By Method SM20 2540C

Matrix AQ

Batch ID: GN14339

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D33110-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

Wet Chemistry By Method SM20 5310B

Matrix AQ

Batch ID: GP6875

2

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D33075-1DUP, D33268-4MS, D33268-4MSD were used as the QC samples for the Total Organic Carbon analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TANK-1
Lab Sample ID: D33211-1
Matrix: AQ - Water
Project: Wattenberg Tank

Date Sampled: 03/29/12
Date Received: 03/29/12
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	9800	250	mg/l	500	03/29/12 14:01	GH	EPA 300/SW846 9056
HEM Oil and Grease	69.9	5.0	mg/l	1	04/10/12	SWT	EPA 1664A
Nitrogen, Nitrate ^a	< 1.1	1.1	mg/l	25	03/29/12 13:50	GH	EPA 300/SW846 9056
Nitrogen, Nitrite ^a	< 5.0	5.0	mg/l	500	03/29/12 14:01	GH	EPA 300/SW846 9056
Solids, Total Dissolved	16800	10	mg/l	1	04/02/12	JK	SM20 2540C
Specific Gravity by Hydromete	1.0086			1	04/09/12	MM	ASTM D287
Sulfate	52.5	13	mg/l	25	03/29/12 13:50	GH	EPA 300/SW846 9056
Total Organic Carbon	486	13	mg/l	12.5	04/02/12 16:30	JML	SM20 5310B
pH	7.18		su	1	03/29/12 15:30	JK	SM20 4500H

(a) Elevated detection limit due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TANK-1	Date Sampled:	03/29/12
Lab Sample ID:	D33211-1F	Date Received:	03/29/12
Matrix:	AQ - Water Filtered	Percent Solids:	n/a
Project:	Wattenberg Tank		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	220000	20000	ug/l	50	04/03/12	04/03/12 JB	SW846 6010C ¹	SW846 3010A ²
Magnesium	31000	10000	ug/l	50	04/03/12	04/03/12 JB	SW846 6010C ¹	SW846 3010A ²
Potassium	290000	50000	ug/l	50	04/03/12	04/03/12 JB	SW846 6010C ¹	SW846 3010A ²
Sodium	5860000	20000	ug/l	50	04/03/12	04/03/12 JB	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA2305

(2) Prep QC Batch: MP7213

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D33211

Client: K.P> KAUFFMAN COMPANY, INC

Immediate Client Services Action Required: No

Date / Time Received: 3/29/2012 12:30:00 PM

No. Coolers: 1

Client Service Action Required at Login: No

Project: WATTENBERG TANK

Airbill #'s: HD

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Infared gun | |
| 3. Cooler media: | Ice (bag) | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume rec'd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
V: (303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www.accutest.com

D33211: Chain of Custody
Page 2 of 2

Metals Analysis

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D33211
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP7213
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/03/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	100	5.9	21		
Antimony	30	3.1	3.2		
Arsenic	25	5.9	7.6		
Barium	10	1.1	.5		
Beryllium	10	.44	3.1		
Boron	50	4.8	2.6		
Cadmium	10	.27	.59		
Calcium	400	9.6	7.3	14.8	<400
Chromium	10	.18	.39		
Cobalt	5.0	.35	.4		
Copper	10	.85	3		
Iron	70	3.4	19		
Lead	50	1.6	2.9		
Lithium	2.0	.28	.65		
Magnesium	200	5.8	11	1.9	<200
Manganese	5.0	.053	1.8		
Molybdenum	10	.45	2.1		
Nickel	30	.43	.53		
Phosphorus	100	11	59		
Potassium	1000	55	61	58.1	<1000
Selenium	50	3.8	5.7		
Silicon	50	3.8	2.1		
Silver	30	.18	.65		
Sodium	400	110	98	-42	<400
Strontium	5.0		1.5		
Thallium	10	2.9	3		
Tin	50	5.5	24		
Titanium	10	.11	1.2		
Uranium	50	1.5	2.2		
Vanadium	10	.16	.39		
Zinc	30	.28	1.5		

Associated samples MP7213: D33211-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

5.1.1
5

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D33211
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP7213
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

5.1.1
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D33211
 Account: KPKCOD - K.P. Kauffmann Company, Inc.
 Project: Wattenberg Tank

QC Batch ID: MP7213
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 04/03/12

Metal	D33292-1 Original MS	Spikelot MPICPALL % Rec	QC Limits
-------	-------------------------	----------------------------	--------------

Aluminum					
Antimony					
Arsenic	anr				
Barium	anr				
Beryllium					
Boron					
Cadmium	anr				
Calcium	84400	111000	25000	106.4	75-125
Chromium	anr				
Cobalt					
Copper	anr				
Iron	anr				
Lead	anr				
Lithium					
Magnesium	23900	51100	25000	108.8	75-125
Manganese	anr				
Molybdenum					
Nickel					
Phosphorus					
Potassium	4830	33500	25000	114.7	75-125
Selenium	anr				
Silicon					
Silver	anr				
Sodium	84700	114000	25000	117.2	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP7213: D33211-1F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D33211
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP7213
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

5.1.2

5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D33211
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP7213
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/03/12

Metal	D33292-1 Original MSD	Spikelot MPICPALL % Rec	MSD RPD	QC Limit
-------	--------------------------	----------------------------	------------	-------------

Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Boron						
Cadmium	anr					
Calcium	84400	112000	25000	110.4	0.9	20
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	anr					
Lithium						
Magnesium	23900	51700	25000	111.2	1.2	20
Manganese	anr					
Molybdenum						
Nickel						
Phosphorus						
Potassium	4830	33800	25000	115.9	0.9	20
Selenium	anr					
Silicon						
Silver	anr					
Sodium	84700	114000	25000	117.2	0.0	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP7213: D33211-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

5.1.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D33211
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP7213
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

5.1.2

5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D33211
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP7213
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/03/12

Metal	BSP Result	Spikelot MPICPAL % Rec	QC Limits
Aluminum			
Antimony			
Arsenic	anr		
Barium	anr		
Beryllium			
Boron			
Cadmium	anr		
Calcium	26400	25000	105.6 80-120
Chromium	anr		
Cobalt			
Copper	anr		
Iron	anr		
Lead	anr		
Lithium			
Magnesium	27000	25000	108.0 80-120
Manganese	anr		
Molybdenum			
Nickel			
Phosphorus			
Potassium	28100	25000	112.4 80-120
Selenium	anr		
Silicon			
Silver	anr		
Sodium	27900	25000	111.6 80-120
Strontium			
Thallium			
Tin			
Titanium			
Uranium			
Vanadium			
Zinc			

Associated samples MP7213: D33211-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

5.1.3
5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D33211
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

QC Batch ID: MP7213
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

5.1.3
5

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

9

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D33211
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bromide	GP6853/GN14304	0.20	0.0	mg/l	20	20.2	101.0	90-110%
Chloride	GP6853/GN14304	0.50	0.0	mg/l	20	20.0	100.0	90-110%
HEM Oil and Grease	GP6940/GN14462	5.0	0.0	mg/l	40	38.5	96.3	78-114%
Nitrogen, Nitrate	GP6853/GN14304	0.045	0.0	mg/l	4.52	4.27	94.5	90-110%
Nitrogen, Nitrite	GP6853/GN14304	0.010	0.0	mg/l	6.09	6.01	98.7	90-110%
Solids, Total Dissolved	GN14339	10	0.0	mg/l	400	392	98.0	90-110%
Sulfate	GP6853/GN14304	0.50	0.0	mg/l	30	29.2	97.3	90-110%
Total Organic Carbon	GP6875/GN14351	1.0	0.0	mg/l	7.2	7.30	101.4	90-110%
pH	GN14315			su	8.00	8.00	100.0	99.3-100

Associated Samples:
Batch GN14315: D33211-1
Batch GN14339: D33211-1
Batch GP6853: D33211-1
Batch GP6875: D33211-1
Batch GP6940: D33211-1
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D33211
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
HEM Oil and Grease	GP6940/GN14462	mg/l	40	37.3	3.2	20%

Associated Samples:
Batch GP6940: D33211-1
(*) Outside of QC limits

6.2

6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D33211
Account: KPKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN14339	D33110-1	mg/l	50.0	40.0	22.2	0-25%
Total Organic Carbon	GP6875/GN14351	D33075-1	mg/l	3.0	3.0	0.0	0-20%

Associated Samples:
Batch GN14339: D33211-1
Batch GP6875: D33211-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D33211
Account: KFKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Bromide	GP6853/GN14304	D33178-1	mg/l	0.21	2.5	2.7	99.6	80-120%
Chloride	GP6853/GN14304	D33178-1	mg/l	8.6	10	18.9	103.0	80-120%
Nitrogen, Nitrate	GP6853/GN14304	D33178-1	mg/l	0.023	0.565	0.56	95.0	80-120%
Nitrogen, Nitrite	GP6853/GN14304	D33178-1	mg/l	0.0	0.305	0.29	95.2	80-120%
Sulfate	GP6853/GN14304	D33178-1	mg/l	216	200	413	98.5	80-120%
Total Organic Carbon	GP6875/GN14351	D33268-4	mg/l	2.6	10	13.1	105.0	80-120%

Associated Samples:

Batch GP6853: D33211-1

Batch GP6875: D33211-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

6.4
6

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D33211
Account: KFKCOD - K.P. Kauffmann Company, Inc.
Project: Wattenberg Tank

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Bromide	GP6853/GN14304	D33178-1	mg/l	0.21	2.5	2.7	0.0	20%
Chloride	GP6853/GN14304	D33178-1	mg/l	8.6	10	18.9	0.0	20%
Nitrogen, Nitrate	GP6853/GN14304	D33178-1	mg/l	0.023	0.565	0.56	0.0	20%
Nitrogen, Nitrite	GP6853/GN14304	D33178-1	mg/l	0.0	0.305	0.29	0.0	20%
Sulfate	GP6853/GN14304	D33178-1	mg/l	216	200	413	0.0	20%
Total Organic Carbon	GP6875/GN14351	D33268-4	mg/l	2.6	10	13.2	0.8	20%

Associated Samples:

Batch GP6853: D33211-1

Batch GP6875: D33211-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits